

**CALFED Bay-Delta Program**  
**LEVEES & CHANNELS TECHNICAL TEAM MEETING**

Wednesday, September 9, 1998

<i>Name</i>	<i>Address/Affiliation</i>	<i>Phone #</i>	<i>E-Mail</i>
Michael D Ramsbotham	CALFED	916 9534539	michael.r@water.ca.gov
Pat Brantley	DFG BAY-DELTA	209-942-6069	pbrant+1@delta.dfg.ca.gov
Margit Aramburu	Delta Protection Commission	916-776-2290	
Tom Zuckerman	CDA	209-943-5431	
Terry Erlewine	SWC	916-447-7357	terrye@calweb.com
Frank Herrett	DFG	209-9487000	

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Name	Address/Affiliation	Phone #	E-Mail
Michael Morris	DWR Central District 3251 S Street Sacramento, CA 95816	(916) 227-7575	mmorris@water.ca.gov
Paul Forsberg	1701 Nimbus Road DFG Rancho Cordova, 95670	(916) 358-2887	pforsberg@hq.dfg.ca.gov
Jason Holey	1701 Nimbus Road DFG Rancho Cordova, 95670	(916) 358-2917	Stu.Holey@aol.com
Robert Clark	CCVFC A 9101 St. #310 Livermore, CA 94581	(916) 446-0197	
Chris Neudeck	KELSOEN, GINNICK & NEUDECK, INC. P.O. Box 844 Stockton CA 95201	916 946-0268	chrneudeck@ksn-inc.
Kenneth B. King	Consulting Civil Engineer 3 Estates Court Orinda, CA 94563	(925) 253-7652	kenbking@msn.com
Chuck Howard	U.S. Bureau of Reclamation 2800 Cottage Way Sac.	(916) 978-5303	CHoward@MUSBR.gov

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Name	Address/Affiliation	Phone #	E-Mail
LYNN O'LEARY	CALFED	(916) 653-9697	loleary@water.gov
Bill Betchart	17050 Montebello Road Cupertino CA 95014	(408) 741-5762	BetchartEx@aol.com
GILBERT COSIO	MURRAY, BURNS & KENLEN 1616 - 29 <sup>th</sup> ST. #300 SAN. 95816	(916) 456-4400	mbkgib@aol.com
Ulrich Lascher	Woodward - Clyde 500 12th St. Oakland	510 874 3200	alexlasch@wcc
Gwen Knittweis	1416 Ninth St. - Resources Bldg.	(916) 654-3729	gwenk@water.ca.gov
Rob Cooke	CALFED	(916) 654-4479	Cooke@water.ca.gov

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**CMARP DELTA LEVEES WORK TEAM**

**SEPTEMBER 11, 1998**

9:00 a.m. to 11:30 a.m.

**Room 1147-C-1, The Resources Building**

**AGENDA**

**Expected Outcomes:** Review draft team product  
Develop and Refine CMARP monitoring sections  
Write linkages section

**Introductions**

**Product Overview and Review of Product**  
**Outline-** Kent Nelson/Gwen Knittweis, Team

**Presentation of Levee Cross Section**  
**Compliance Monitoring Element-** Curt Schmutte

**Refine Environmental Monitoring Component-**  
Team

**Presentation of Revised Seismic Monitoring**  
**Element-** Mike Driller

**Discuss ideas for Linkages Section-** Team

**Discussion of Needs for Inventory of Existing**  
**Monitoring Programs-** Team

**Discussion of Next Meeting Date and Agenda**

Draft Meeting Notes  
CMARP DELTA LEVEES WORK TEAM MEETING  
August 26, 1998 at 9:00 am in Rm. 653 of the Resources Building

**Attendance List:**

Lori Clamurro, Delta Protection Commission  
Mike Driller, DWR Engineering  
Chuck Howard, USBR  
Marti Ikehara, US Geological Survey  
Robert Kayen, US Geological Survey  
Gwen Knittweis, CALFED  
Gil LaBrie, D&C Engineering  
Jim Martin, DWR Central District  
Art McGarr, US Geological Survey  
Kent Nelson, DWR ESO  
Chris Neudeck, Kjeldsen, Sinnock, and Neudeck, Inc.  
Michael Ramsbotham, Corps of Engineers/CALFED Bay-Delta Program  
Jeanne Schallberger, DWR Executive

The Team reviewed the 4/14/98 version of "Levee Program Monitoring and Research" to refine the scope of Levee Program monitoring and research. Kent Nelson suggested that more information was needed on the ERP/Levee Program nexus. Chris Neudeck suggested that we include an item that would incorporate DWR inspections for AB360, etc. i.e. "Monitoring levee reconstruction and maintenance for compliance with PL84-99."

There was much discussion on the need for coordination between GIS systems and the need for a standardized datum in the Delta. It was mentioned that DWR Central District has a GIS based on 7-1/2 maps- Chris Neudeck suggested that we bring this into a refined format. It was suggested that "Maintain a common and integrated datum in the Delta" be added to the "Levee Program Monitoring and Research" list or "Establish and utilize a common coordinate system for the Sac/SJ delta meeting minimum control standards."

It was suggested that locals need to be made to tie-in to the system. It was noted that it will be difficult to motivate local tie-in given the great expense and resource demand. It was suggested that funding somehow be obtained. It was requested that CALFED staff elevate this issue to management as it is an important area for success of monitoring as well as many other CALFED activities. Marti Ikehara mentioned that the group she is affiliated with is preparing an estimate of how much it would cost to maintain the 110 control points her group has set out on a three year (1/3 per year) maintenance cycle. It was suggested that an issue paper be prepared for presentation to CALFED upper management.

Kent Nelson reviewed his environmental monitoring and enhancement sections. He noted that his section had buy-in from the Region II DFG office (Ed Littrel who administers AB360). It was discussed that enhancement should be addressed by ecosystem groups. Gwen Knittweis suggested that as better levee/ecosystem integration is a goal of the levee program, there should be a way to measure progress towards this goal rather than the quality of the habitat itself. It was suggested that under the "SUMMARY STATUS OF CMARP TASKS" Task 3, Subtask 3B, Element 1 there should be mention of how ERP and the levees coordinate. Some mentioned that this might appropriately fall under 1L "Fluvial geomorphology and riparian issues." The group will review the sections on environmental monitoring prepared by Kent Nelson and give comment. Gwen Knittweis will verify with the CMARP steering committee that one of the ecosystem monitoring groups will cover monitoring for levee habitat quality and enhancement.

Chris Neudeck presented his section on horizontal and vertical control. There were a few minor edits. There was discussion on the use of LIDAR for surveys. Rob Kayen suggested that the cost was relatively inexpensive.

Michael Ramsbotham presented his section on subsidence monitoring. It was generally accepted with a few minor edits. There was some discussion on distinguishing between the effects of settlement and subsidence.

DWR's Central District needs to provide the write-up on levee cross section compliance.

There was discussion on the adequacy of the Seismic write-up to fully characterize the concerns. Rob Kayen suggested that data be compiled to better assess Delta soil characteristics. It was discussed that one problem is that many soil borings are at the toe of the levee and we need to capture the character of the levees themselves. Mike Driller's group will provide a revised seismic write-up.

#### Task Summary:

- The group will review the sections on environmental monitoring prepared by Kent Nelson and give comment.
- DWR's Central District to provide the write-up on levee cross section compliance.
- Mike Driller's group to provide a revised seismic write-up.
- Gwen Knittweis will verify that one of the ecosystem monitoring groups will cover monitoring for levee habitat quality.
- CALFED staff to discuss the need to establish a uniform control datum in the Delta with CALFED management and consider preparing an issue paper for elevation.

# CALFED BAY-DELTA PROGRAM

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Resources Building, Room 653

9:00 a.m. to 11:30 a.m.

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Name	Address/Affiliation	Phone #	E-Mail
Marti Ikehara	USGS 6000 J St, Placer Hall Sacramento, CA 95819	(916) 278-3131	mikehara@usgs.gov
Kent Nelson	DWR/ESD 3251 S St A-4 Sacramento CA 95815	916 227-7549	Knelson@water.ca.gov
ART McGARR	USGS MS 977 345 Middlefield Rd. Menlo Park, CA 94025	650 729 5645	mcgarr@isdmal.wr.usgs.gov
Lori Clamurro	Delta Protection Comm'n PO BOX 530 Walnut Grove CA 95690	916 776 2290	dpc@citlink.net
CHRISTOPHER H. NEUDECK	KJELOSSEN, SYNNOCK & NEUDECK, INC. P.O. BOX 844 STOCKTON, CA 95201	209 946-0268	cneudecke@ksn.inc.
ROBERT KAYEN	USGS, MS. 999 Menlo Park	(650) 329-4175	rkayen@usgs.gov
Jim MARTIN	DWR-CD	(916) 227-75	jimm@water.ca.gov
MIKE DRILLER	DWR-DOE	(916) 657-5143	driller@water.ca.gov
Michael D Ramsbotham	CALFED	916 6534539	michaelr@water.ca.gov

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GIL LABRIE	DPC ENGINEERING PO BOX 929 WALNUT GROVE, CA 95690	916 776-2277 FA 776-2282	rktekgi@aol.com
Chuck HOWARD	US Bureau of Reclamation Sacramento	916-978-5303	CHOWARD@NP.USBR.GOV
JEANNE SCHALLBERGER	DWR - Executive	653-0758	jeanne@water.ca.gov